

### Arnt antibody - C-terminal region

Rabbit Polyclonal Antibody Catalog # Al10202

# **Specification**

### **Arnt antibody - C-terminal region - Product Information**

Application WB
Primary Accession P41739

Other Accession NM 012780, NP 036912

Reactivity Human, Mouse, Rat, Pig, Sheep, Horse,

Bovine, Dog

Predicted Human, Mouse, Rat, Pig, Chicken, Bovine,

Guinea Pig, Dog

Host Rabbit
Clonality Polyclonal
Calculated MW 47kDa KDa

# Arnt antibody - C-terminal region - Additional Information

**Gene ID 25242** 

Alias Symbol Arnt1, Arnt

**Other Names** 

Aryl hydrocarbon receptor nuclear translocator, ARNT protein, Dioxin receptor, nuclear translocator, Hypoxia-inducible factor 1-beta, HIF-1-beta, HIF1-beta, Arnt

#### **Format**

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

### **Reconstitution & Storage**

Add 50 ul of distilled water. Final anti-Arnt antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

### **Precautions**

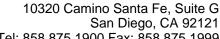
Arnt antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

### Arnt antibody - C-terminal region - Protein Information

### Name Arnt

## **Function**

Required for activity of the AHR. Upon ligand binding, AHR translocates into the nucleus, where it heterodimerizes with ARNT and induces transcription by binding to xenobiotic response elements (XRE). Not required for the ligand-binding subunit to translocate from the cytosol to the nucleus after ligand binding. The complex initiates transcription of genes involved in the regulation of a variety of biological processes, including angiogenesis, hematopoiesis, drug and lipid metabolism, cell motility and immune modulation (By similarity). The heterodimer binds to core DNA sequence





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5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters and functions as a transcriptional regulator of the adaptive response to hypoxia (By similarity). The heterodimer ARNT:AHR binds to core DNA sequence 5'- TGCGTG-3' within the dioxin response element (DRE) of target gene promoters and activates their transcription (By similarity).

### **Cellular Location**

Nucleus {ECO:0000250|UniProtKB:P27540}.

# **Arnt antibody - C-terminal region - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

